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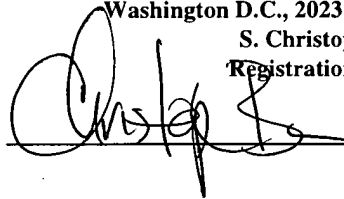
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**RECEIVED**

IN RE APPLICATION OF)
Summers et al.) GROUP ART UNIT: 1643
SERIAL NO: 08/954,954) EXAMINER: Kemmerer, Elizabeth
FILED: October 21, 1997)
DATE: September 28, 1998

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TITLE: Novel Erythropoietin Receptor Agonists

I hereby certify that this correspondence is being deposited with the
United States Postal Service as first class mail in an envelope addressed to:
Commissioner of Patents and Trademarks,
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S. Christopher Bauer
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 Date: 09/28/98

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.97-1.99

Hon. Commissioner of Patents & Trademarks
Washington, D.C. 20231

Sir:

This Information Disclosure Statement is filed pursuant to 37 CFR §1.97-1.99, as supplemented by MPEP §609. Attached is PTO Form 1449 listing documents believed to be material to the subject matter claimed in the above-identified application as of the filing date of said application.

Presentation of these documents listed on PTO Form-1449 is not an admission that any listed document is prior art under the Patent Statutes and the right is reserved to antedate any material described in the listed documents by a showing under

37CFR §1.131 or otherwise.

The following patents and publications are listed on PTO Form-1449.

| | | |
|-------------|---------------------|----------|
| 4,703,008 | FU-KUEN LIN | 10/27/87 |
| 5,635,599 | PASTAN ET AL. | 06/03/97 |
| WO 95/27732 | US DEPT OF HEALTH | 10/19/95 |
| WO 92/06116 | ORTHO PHARM CORP | 04/16/92 |
| WO 95/21197 | G. D. SEARLE & CO. | 08/10/95 |
| WO 94/24160 | BRIGHAM & WOMEN'S | 10/27/94 |
| WO 94/25055 | ABBOTT LABORATORIES | 11/10/94 |

REEKE et al, "Three-Dimensional Structure of Favin: Saccharide Binding-Cyclic Permutation in Leguminous Lectins", Science, 11/28/86, Vol. 234 pp 1108-1111

LUGER et al, "An 8-fold Ba Barrel Protein with Redundant Folding Possibilities", Protein Engineering, Vol 3 pp 249-258

CUNNINGHAM et al, "Favion versus concanavalin A: Circularly permuted amino acid sequences", Proc. Natl. Acad. Sci. USA, July 1979, Vol. 76, No. 7, pp. 3218-3222

PROTASOVA et al, "Circularly permuted dihydrofolate reductase of E.coli has functional activity and a destabilized tertiary structure:", Protein Engineering, 1994, Vol.7, No. 11, pp.1373-1777

ZHANG et al, "Circular Permutation of T4 Lysozyme", Biochemistry, Vol 32, No. 46, 1993

LUGER et al, "Correct Folding of Circularly Permuted Variants of a Ba Barrel Enzyme in Vivo", Science, Vol. 243

HAHN et al, "Native-like in vivo folding of a circularly permuted jellyroll protein shown by crystal structure analysis", Proc. Natl. Acad. Sci. USA, 1994, Vol. 91, pp. 10417-10421

LIN et al, "Rearranging the domains of pepsinogen", Protein Science, 1995, Vol. 4, pp 159-166

YANG et al, "Aspartate transcarbamoylase containing circularly permuted catalytic polypeptide chains", Proc. Natl. Acad. Sci. USA, 1993, Vol. 90, pp. 11980-11984

VIGNAI et al, "Circular permutation within the coenzyme binding domain of the tetrameric glyceraldehyde-3-phosphate dehydrogenase from *Bacillus stearothermophilus*", Protein Science, 1995, Vol 4., pp. 994-1000

GOLDENBERG et al, "Circular and Circularly Permuted Forms of Bovine Pancreatic Trypsin Inhibitor", J. Mol. Biol. 1983, Vol. 165, pp. 407-413

HEMPERLY et al, "Circular permutation of amino acid sequences among legume lectins", TIBS, 1983, pp. 100-102

KREITMAN et al, "Circularly permuted interleukin 4 retains proliferative and binding activity", Cytokine, 1995, Vol. 7, No. 4, pp. 311-318

LI et al, "Degradation of Ornithine Decarboxylase", Mol. and Cel. Biol. 1993, Vol. 13, No. 4, pp. 2377-2383

RITCO et al, "Is the Continuity of the Domains Required for the Correct Folding of a Two-Domain Protein?", Biochemistry, 1995, Vol. 34, pp. 16543-16551

GARRETT et al, "Are turns required for the folding of ribonuclease T1?", Protein Science, 1996, Vol. 5., pp. 204-211

KOMAR et al, "Kinetics of translation" FEBS Letters, 1995 Vol. 376, pp. 195-198

MACGREGOR et al, "A circularly permuted α -amylase-type", FEBS Letters, 1996, Vol. 378, pp. 263-266

KOEBNIK et al, "Membrane Assembly of Circularly Permuted Variants", JMB, 1995, Vol. 250, pp. 617-626

BUCHWALDER et al, "A fully active variant of Dihydrofolate Reductase with a circularly permuted sequence", Biochemistry, 1992, Vol. 31, pp. 1621-1630

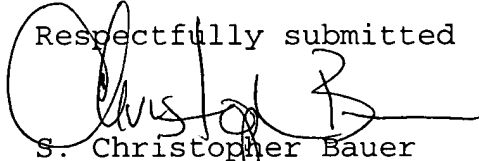
VIGUERA et al, "The order of secondary structure elements", J. Mol. Biol., 1995, Vol. 247, pp. 670-681

MULLINS et al. "Transposition of Protein Sequences: Circular Permutation of Ribonuclease T1", J. Am. Chem. Soc., 1994, Vol. 116, pp. 5529-5533

HORLICK et al, "Permuteins of interleukin 1B - a simplified approach for the construction of permuted proteins having new termini", Protein Engineering, USA, 1992, Vol. 5, pp.427-431

KREITMAN et al, "A circularly permuted recombinant interleukin 4 toxin with increase activity", Proc. Natl. Acad. Sci. USA, 1993, Vol. 91, pp. 6889-3893

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